



Test 1

Question 1:

- **Choose the correct answer:**

- a- $(3 + 1) \dots\dots\dots N$ (\in - \notin - \varnothing - \subset)
- b- If X is an even number, then $x + 2$ is $\dots\dots\dots$ number.
(even – odd – prime – otherwise)
- c- If $x + 2 = 9$, $x \in N$, then $x = \dots\dots\dots$ (15 – 13 – 11 – 7)
- d- Area of a triangle its Base = 10 cm , Height = 6 cm is $\dots\dots\dots$
(60 – 30 – 15 – 84)

Question 2:

A) Complete to get a true sentence:

- (1) The circumference of a circle with diameter 10 cm is ... π cm.
- (2) $32 \times (64 + 36) = 32 \times \dots\dots\dots = \dots\dots\dots$

B) Which is greater in area?

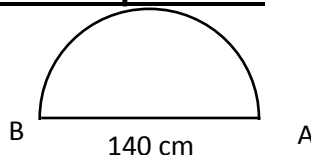
A Triangle it's base is 8 cm and it's height is 6 cm

or A Square the length of its diagonal is 10 cm

Question 3:

A) Translate the following verbal statement into an equations:

Twice a number subtracted 3 from it



B) Find the perimeter of the following figure:





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Question 4:

A) In the Cartesian co-ordinates plan determine the points A (2 , 2) , B (5 , 2) , C (5 , 8) , D (2 , 8).

B) The following table shows the marks of 40 pupils in the Math Exam:

Sets	10 -	20 -	30 -	40 -	50 -	Total
Frequency	5	7	12	A	7	40

- (1) Find the value of A
- (2) Represent the data by frequency polygon





Test 2

Question 1:

- **Circle the true answer:**

- a- If the longest chord in a circle is 14 cm. then the circumference is cm (88 , 44 , 22 , 11)
- b- The sum of two natural numbers N (\in - \notin - \varsubsetneq - \subset)
- c- If $x + 3 = 5$, then $x =$ (1 , 2 , 3 , 4)
- d- The area of a triangle whose base length is 10 cm and height is 5 cm is cm^2 (40 , 25 , 60 , 70)

Question 2:

- **Complete:**

- a- If x between 5 and 9 , then $x =$
- b- The additive identity is but the multiplicative identity is
- c- The set of natural numbers (N) – the set of even numbers (E) =
- d- If x is odd number then $x + 4 =$





Question 3:

- Use the properties of "commutative", "Associative", "Distribution" to find:

a- 372×101

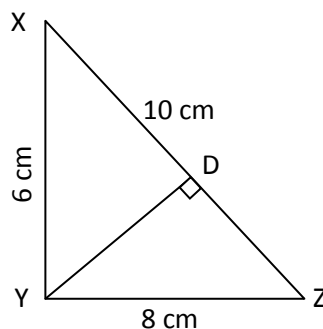
b- $8 \times 582 \times 125$

c- $208 + 73 + 792 + 27$

Question 4:

A) $\triangle XYZ$ is a right angle at Y , $XY = 6 \text{ cm}$, $YZ = 8 \text{ cm}$, $ZX = 10 \text{ cm}$.

Find the length of \overline{YD}



B) Write the relation between A and B if B greater than twice A by 10

Question 5:

A) In 2-dimensional coordinate plane:

Draw the triangle ABC where A (2 , 1) , B (5 , 1) , C (5 , 5)





Test 3

Question 1:

- **Complete:**

- a- The multiplicative neutral element in N is but the additive neutral element in N is
- b- The sum of two numbers is 18 one of them is x then the other is
- c- $N - E = \dots\dots\dots$, $E \cup O = \dots\dots\dots$, $E \cap O = \dots\dots\dots$
- d- $54 + (35 + \dots\dots\dots) = (54 + \dots\dots\dots) + 28$

Question 2:

- **Choose the correct answer:**

- a- Twice the number x subtracted 5 from it =
($x - 5$ or $2x + 5$ or $2x - 5$ or $5 - 2x$)
- b- $(48 \div 8) \dots\dots\dots N$ (\in - \notin - \varnothing - \subset)
- c- If $x = \{ x : x \in N , 3 < x \leq 6 \}$ then $x = \dots\dots\dots$
($\{ 4 , 5 \}$, $\{ 3 , 4 , 5 , 6 \}$, $\{ 3 , 4 , 5 \}$, $\{ 4 , 5 , 6 \}$)
- d- The diameter of the circle whose circumference = 44 cm equals ... cm
(28 or 21 or 7 or 14)





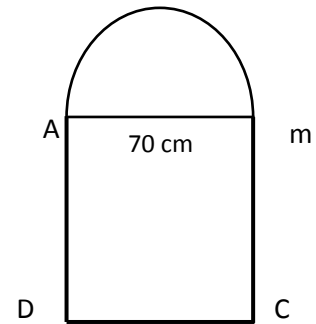
Question 3:

A) Which is greater in area?

The rectangle whose two dimensions 4,5 or the square whose one of its diagonals is 8 cm

B) Calculate the perimeter of the opposite figure where

$$AM = 70 \text{ cm} \quad \left(= \frac{22}{7} \right)$$



Question 4:

A) The following table shows the wages of 50 workers in a factory:

Wages	10 -	20 -	30 -	40 -	50 -	60 -	70 -	Total
Number of workers	3	6	10	15	8	5	3	50

Represent the data by frequency polygon





Test 4

Question 1:

- Choose the correct answer:

- a- $8 + 18 \div 6 \times 5 - 20 = \dots\dots\dots$ (2 , 25 , 3 , 10)
- b- If $x = \{ x : x \in \mathbb{N} , 2 \leq x < 3 \}$, then $x \in \dots\dots$ (\emptyset , $\{ 2 , 3 \}$, $\{ 2 \}$, $\{ 3 \}$)
- c- The radius of the circle whose perimeter is 88 cm equal $\dots\dots$ cm
(7 , 14 , 28 , 56)
- d- Twice a number x subtracted 3 from it ... ($x - 3$, $2x + 3$, $2x - 3$, $3 - 2x$)
- e- If x is an odd number then $x + 2 \dots\dots$ (even , odd , prime)

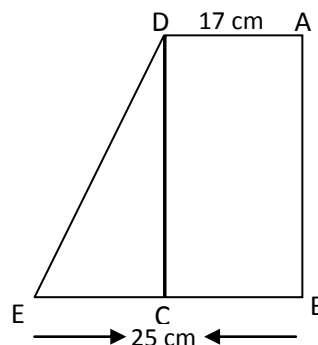
Question 2:

- A) In the opposite figure:

ABCD is rectangle its area 544 cm^2

$E \in \overrightarrow{BC}$, $AD = 17 \text{ cm}$, $BE = 25 \text{ cm}$

Find the area of $\triangle DCE$



- B) If $x = \{ x : x \in \mathbb{N} , x \leq 7 \}$ use the listing method to write x then represent its elements on a number line.





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Question 3:

A) The length of the diameter of the wheel of a bicycle is 28 cm.

Calculate the covered distance if the wheel turns one turn and what the number of turns to cover distance 132 meter (where $\pi = \frac{22}{7}$)

B) If the age of a man now is x years where $x \in \mathbb{N}$ find:

- 1) The age of the man after 10 years
- 2) The age of the man since 7 years ago

C) Find the diagonal of a square its area is 24.5 cm^2

Question 4:

• Complete:

a- The multiplicative natural in \mathbb{N} is

b- The set of even numbers (E) – the rest of odd numbers (O) =

c- If a number x exceeds twice the number y by 7 =

d- $316 \times 1001 = \dots\dots\dots$ (use distribution property)

e- $(5 - 7) \dots\dots\dots \mathbb{N}$ $(\in - \notin - \varsubsetneq - \subset)$

f- A rectangle in which , the length is more than its width by 4 cm if the length of the rectangle is x cm then the width = cm

g- The length of a rectangle exceeds the width by S , if the width of the rectangle = x cm , then its length = cm





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Question 5:

A) Which is greater?

A square whose diagonal is 10 cm long or the right-angled triangle in which the length of the sides of the right angle are 8 cm and 15 cm.

B) In the two dimensional co-ordinates determine the points A (2 ,5) , B (5 , 2) , C (5 , 8), then find the length of \overline{BC} by measuring .





Answer Test 1

1- a. € b. even c. 7 d. 30

2- A) 1) 10
2) 100 , 3200

$$B) A \text{ of Triangle} = \frac{1}{2} \times b \times h = \frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$$

$$A \text{ of square} = \frac{1}{2} \times d \times d = \frac{1}{2} \times 10 \times 10 = 50 \text{ cm}^2$$

Area of square > Area of triangle

3- A) $2X - 3$

$$B) C = \pi d = \frac{22}{7} \times 140 = 440 \text{ cm}$$

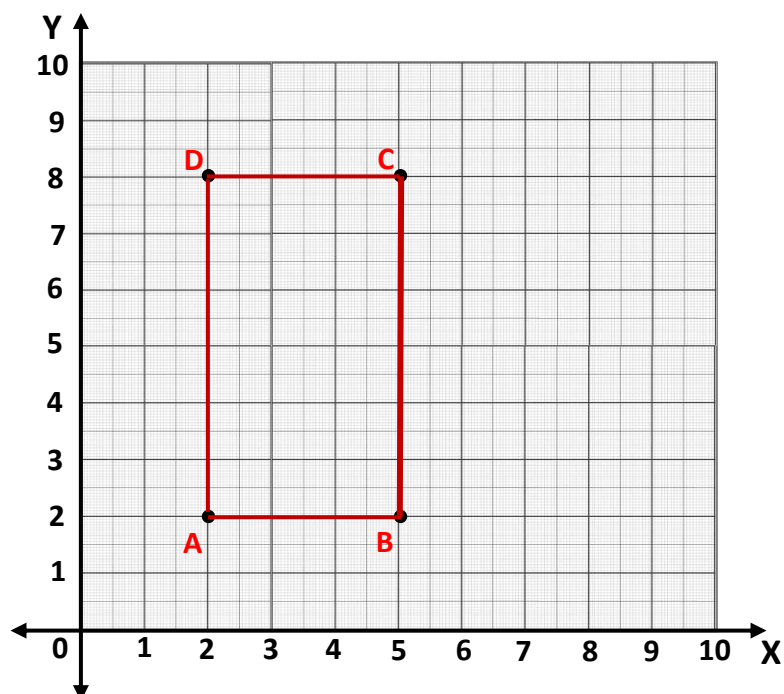
$$\frac{1}{2} C = \frac{440}{2} = 220 \text{ cm}$$

$$P = 220 + 140 = 360 \text{ cm}$$

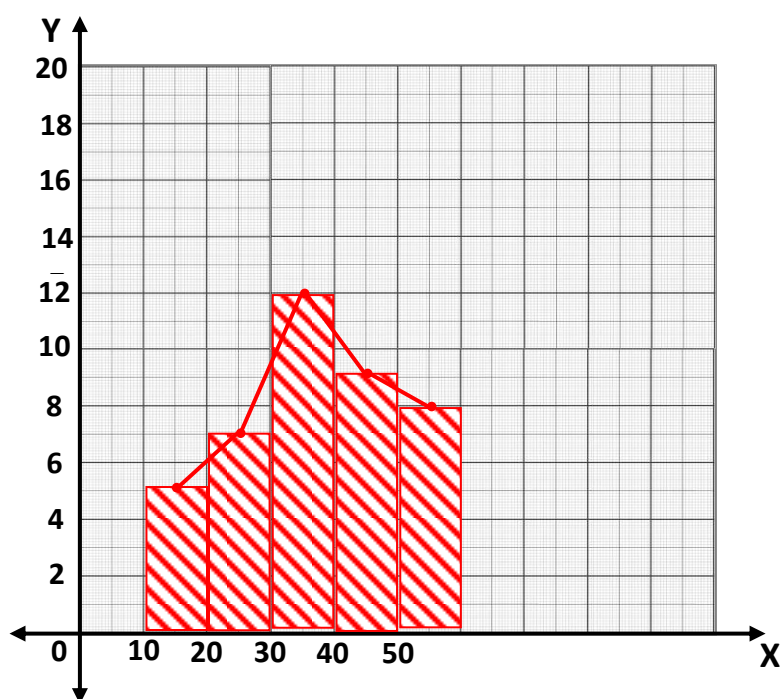




5- A)



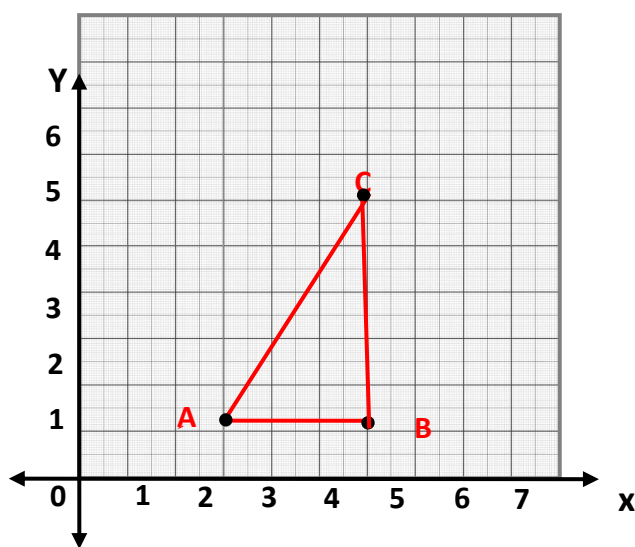
B) the value of A = 9

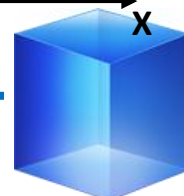




Answer Test 2

- 1- a. 44 b. € c. 2 d. 25
- 2- a. {6,7,8} b. 0 , 1 c. O d. odd
- 3- (a) $372 \times (100 + 1)$
 $= 372 \times 100 + 372$ Distribution
 $= 37200 + 372 = 37572$
- (b) $(8 \times 125) \times 582$ Commutative & Associative
 1000×582
 582000
- (c) $208 + 792 + 73 + 27$ Commutative
 $(208 + 792) + (73 + 27)$ Associative
 $1000 + 100 = 1100$
- 4- (a) $\text{Area} = \frac{1}{2} \times \text{base} \times \text{height}$
 $= \frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$
 $DY = \frac{2 \times \text{area}}{\text{base}} = \frac{2 \times 24}{10} = 4.8 \text{ cm}$
- (b) $B - 2A = 10$







Answer Test 4

1- a. $8 + (3 \times 5) - 20$
 $8 + 15 - 20 = 23 - 20 = 3$

b. $\{2\}$

c. $r = \frac{C}{2\pi}$
 $r = \frac{88}{2 \times \frac{22}{7}} = \frac{88 \times 7}{2 \times 22} = 14 \text{ cm}$

d. $2x - 3$

e. odd

2- (1) $A \square = L \times W$

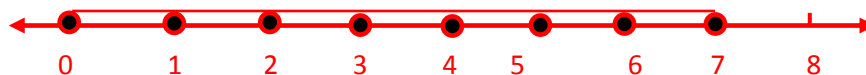
$$544 = L \times 17 \rightarrow L = \frac{544}{17} = 32 \text{ cm}$$

$$A \Delta = \frac{1}{2} \times \text{Base} \times \text{heights}$$

$$= \frac{1}{2} \times 8 \times 32 = 128 \text{ cm}^2$$

$$B = 25 - 17 = 8 \text{ cm}$$

(2) $\{0, 1, 2, 3, 4, 5, 6, 7\}$



3- (A) $c = \pi d$

$$= \frac{22}{7} \times 28 = 88 \text{ cm}$$

$$132 \text{ m} = 13200 \text{ cm}$$

$$\text{The number of turns} = \frac{13200}{88} = 150 \text{ turns}$$





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$$(B) \quad * x + 10$$

$$* x - 7$$

$$c- d_1 \times d_2 = 2A$$

$$d_1 \times d_2 = 2 \times 24.5$$

$$d_1 \times d_2 = 49$$

$$d = 7 \text{ cm}$$

4- (a) 1

(b) E

(c) $x = 2y + 7$

(d) $316 \times (1000 + 1)$

$$316 \times 1000 + 316 \times 1 \quad (\text{distribution})$$

$$316000 + 316 = 316316$$

(e) €

(f) $x - 4$

(g) $X + S$

5- A) Area of square = $\frac{1}{2} \times d \times d$

$$= \frac{1}{2} \times 10 \times 10 = 50 \text{ cm}^2$$

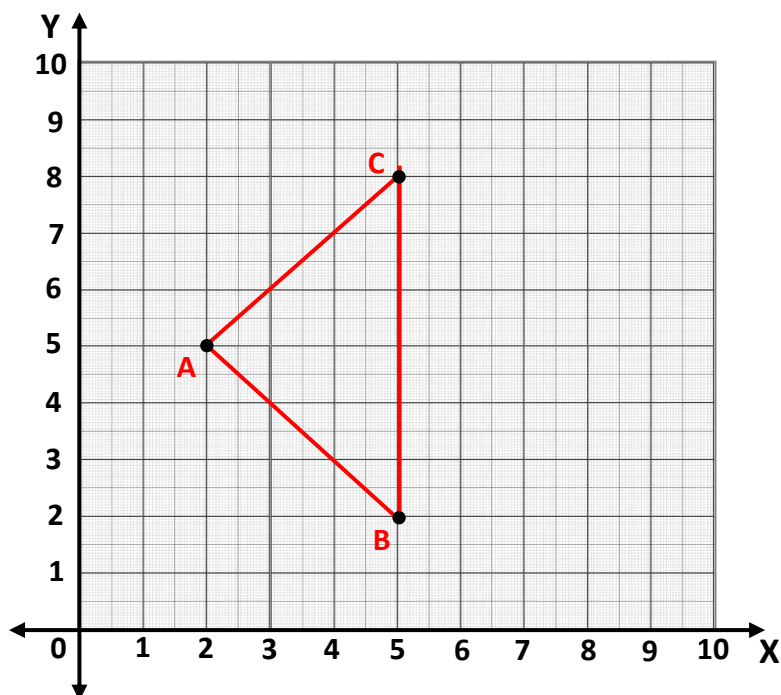
$$\text{Area of triangle} = \frac{1}{2} \times H \times B = \frac{1}{2} \times 8 \times 15 = 60 \text{ cm}^2$$

$$\text{Area of triangle} > \text{Area of square}$$





C)



$Bc = 6$ units

Good luck

